

1 → 1
 1 ACAGAGGAAAGAGGCACACCCGGGGTGGCGCAGTGAGGAGGGGGCGGACGGCCA
 58 GGAGGCTGGTGGAGCGACACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTCTGAAC
 118 CCCCTTTCCCTTGAGAGACGAGTGGGGGAGTCCTCCACGCATTACCACTCGGGCCGCA
 178 AAACTCCCTTCTTAGCCCTCTGCCCCCGCCCTTGCTTATAAGCCTTTGAGACCGCAGA
 238 AGGACCTTGTGTGAACGGGACGGCCAAAGAGGAAGCCAGATCGCTGAGGGTCCGGTCT
 298 CCAGTTGCCCTCCTGCTATATCCATTGGAAGAGAAAGTTTGACTGGGCCCCCAAGT → 3
 358 TTTGAGAGAACTGGGCTTTTCGGCGGGGGACAGAGGAGGCTCGTGGGAGCTTTCCTCC
 418 ATGAGCTTACCCAGCCTGCAGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAA
 1 M E L T Q P A E D L I Q T Q Q T P A S E
 478 CTTGGGACCCCTGAAGACCCCGGAGAGGAGGCTGCAGATGGCTCAGACACTGTGGTCTC
 21 L G D P E D P G E E A A D G S D T V V L
 538 AGTCTCTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAGTGTTCCTCT
 41 S L F P C T P E P V N P E P D A S V S S
 598 CCACAGGcagGCAGCTCCCTGAAGCACTCCACCACTCTCACCAACCGGACGAGGGAAC
 61 P Q (A) G S S L K H S T T L T N R Q R G N

Figure 2a

658 GAGGTGTCAGCTCTGCCGGCCACCCCTAGACTCCCTGTCCATCCACAGCTCGCAGCACAG
81 E V S A L P A T L D S L S I H Q L A A Q
718 GGGAGCTGGACCAGCTGAAGGAGCATTTGCCGGAAGGTGACAAACCTCGTCAACAAGCCA
101 G E L D Q L K E H L R K G D N L V N K P
778 GACGAGCGGGCTTCACCCCTCATCTGGGCTCCGCCCTTTGGAGAGATTGAGACCGTT
121 D E R G F T P L I W A S A F G E I E T V
838 CGCTTCCTGCTGGAGTGGGTGCCGACCCCACTCCTGGCAAAAGCGAGAGCGGCC
141 R F L L E W G A D P H I L A K E R E S A
898 CTGTCGCTGGCCAGCACAGCGGCTACACAGACATTGTGGGGCTGCTGTGAGCGGTGAC
161 L S L A S T G G Y T D I V G L L L E R D
958 GTGGACATCAACATCTATGATTGGAATGGAGGACGCCACTGCTGTACGCTGTGCGCGGG
181 V D I N I Y D W N G G T P L L Y A V R G
1018 AACCACGTGAATGCGTTGAGGCCTTGCTGGCCCGAGGCGGTGACCTCACCACCGAAGCC
201 N H V K C V E A L L A R G A D L T T E A
1078 GACTCTGGCTACACCCCGATGGACCTTGCCGTGGCCCTGGGATACCGGAAGTGCAACAG
221 D S G Y T P M D L A V A L G Y R K V Q Q

Figure 2b

1198 TGAAGCGCCTGCCGGGACTCAGACACTCAGGGAACAAATGGTCAGCCAGAGCTGGG
260 *

1258 GAAACCCAGAACTGACTTCAAAGGCAGCTTCTGGACAGTGGTGGAGGGACCTTCCC

1318 AAGAGGAACCAATAAACCTTCTGTGCAG - polyA

Figure 2c

sREXANK MELTQPAEDLIQTQTASELGDPEDEEADGSDTVVLSLFPCTPEPVNPEPDASVSS 60
 mREXANK ---P---V---N-VPN---P-VPD-E---TRD-SPEN-----DA---A---A---A--- 60
 s homol NAFNVETEVEHFLAECNIHTSPSPGIQVRHVXTP-T 35
 m homol ASVLFKAECNIHTSPSPGIQVRHVYTP-T 29

HHHHT HHHHHHHHHHT
 PQaGSSLKHSTLTNRQRGNEVSALPATLSLSIHQAQGELDQLKEHLRKG..... 113
 L-.-F-----TT-LLAN---V-----MLY-ATRIEQ..... 119
 TKHF-PI-Q-----KH-----TT-LLAN---A-----MLY-ATRIEQ..... 87
 TKHF-PI-Q-----KH-----TT-LLAN---A-----MLY-ATRIEQ..... 81
 EA-RA-QD-EVRILMAN-..... 25
 sREXANK
 mREXANK
 s homol
 m homol
 ABPβ

ank 1
 TT HHHHHHHHT HHHHHHHHTTT TT TT HHHHHHHHT H
 ...DNLVNKPDERTPLIWASAFGEIETVRFLEWGADPHILAKERESALSTGGYT 170
 lsgN--I-----D-----M----- 179
 ...E-VI-HT-E-----M--A-H-Q-AV-E---QN---QL-G-G---CSK--- 144
 ...E-VI-HT-E-----M--A-H-Q-AV-E---QN---QL-G-G---CSK--- 138
 ...APFTT...-WL-TS--HL-AQY-HFS-TEV--RA-VSRDART-VDRTP-HM-ASE-HA 80
 sREXANK
 mREXANK
 s homol
 m homol
 ABPβ

Figure 3a

	ank 2	ank 3	
HsREFXANK	HHHHHHHHHTT TT	HHHHHHHHHTT TT	HHHHH 230
MmREFXANK	DIVGLLLERDV	DINIYDWNGTPLL	YAVRGNHVKCEALLARGADLTTEADSGYTPMDLA 239
Hs homol	---R---	D-----	-----
Mm homol	---XM---DCG--V-X-----	H-----	KM--ES--P-I-T-----NS-- 204
GABPβ	---KM---DCG--V-E-----	GH-----	KM--EN--P-I-T-----NS-- 198
	N--EV--KHGA-V-AK-MLKM-A-HW-TEH--QEV--L-IKY--VH-QSKFCK-AF-IS		140

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HsREFXANK	HHTT HHHHHHHH	
MmREFXANK	VALGYRKVQQVIENHILKLFQSNLVPADPE	260
Hs homol	-----M-S-----R-----T-G-V---	269
Mm homol	-----IEVFNRLSHIC	220
GABPβ	-----GCSDYMLVTDVERI	218
	IDN-NEDLAEILQ	153

Figure 3b

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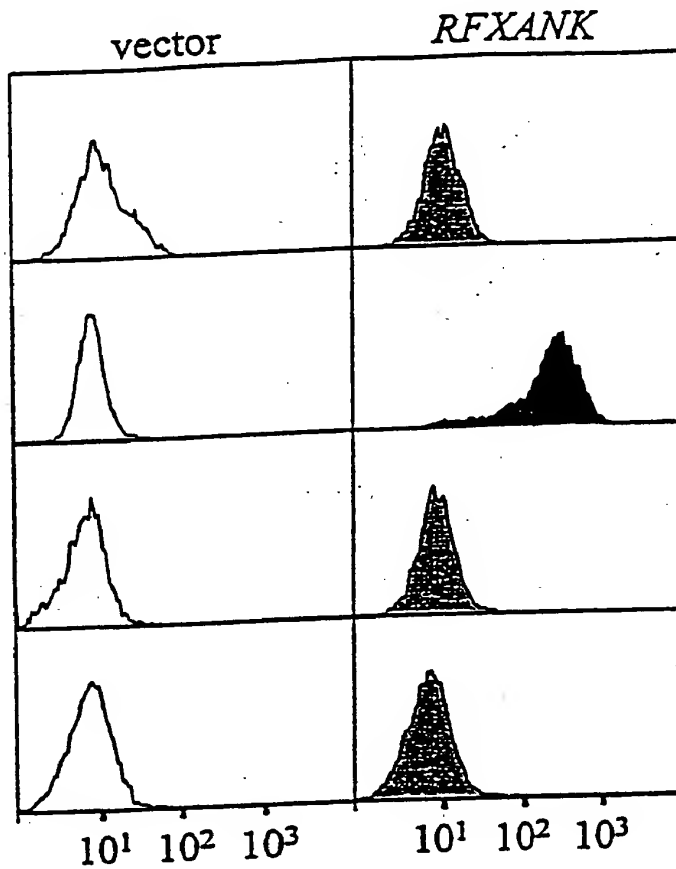
A.

RJ2.2.5
group A

BLS1
group B

SJO
group C

Da
group D



B.

BLS1 +
vector

BLS1 +
RFXANK

Raji

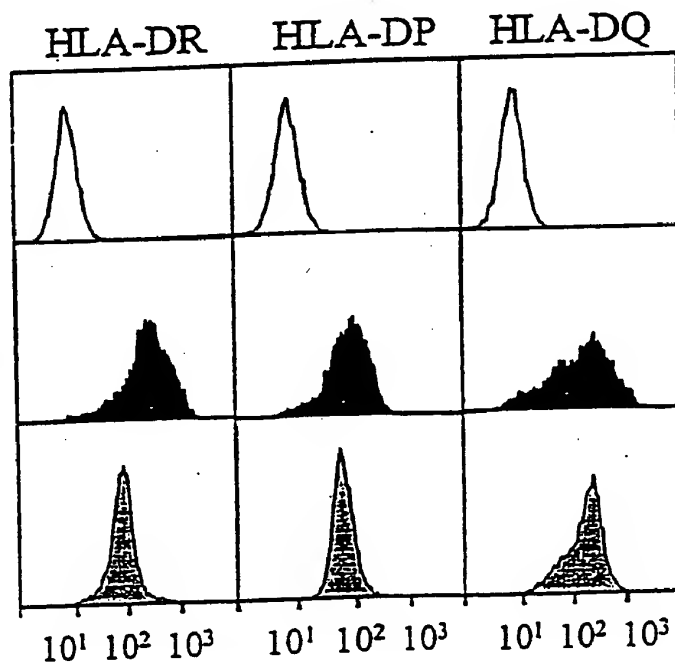
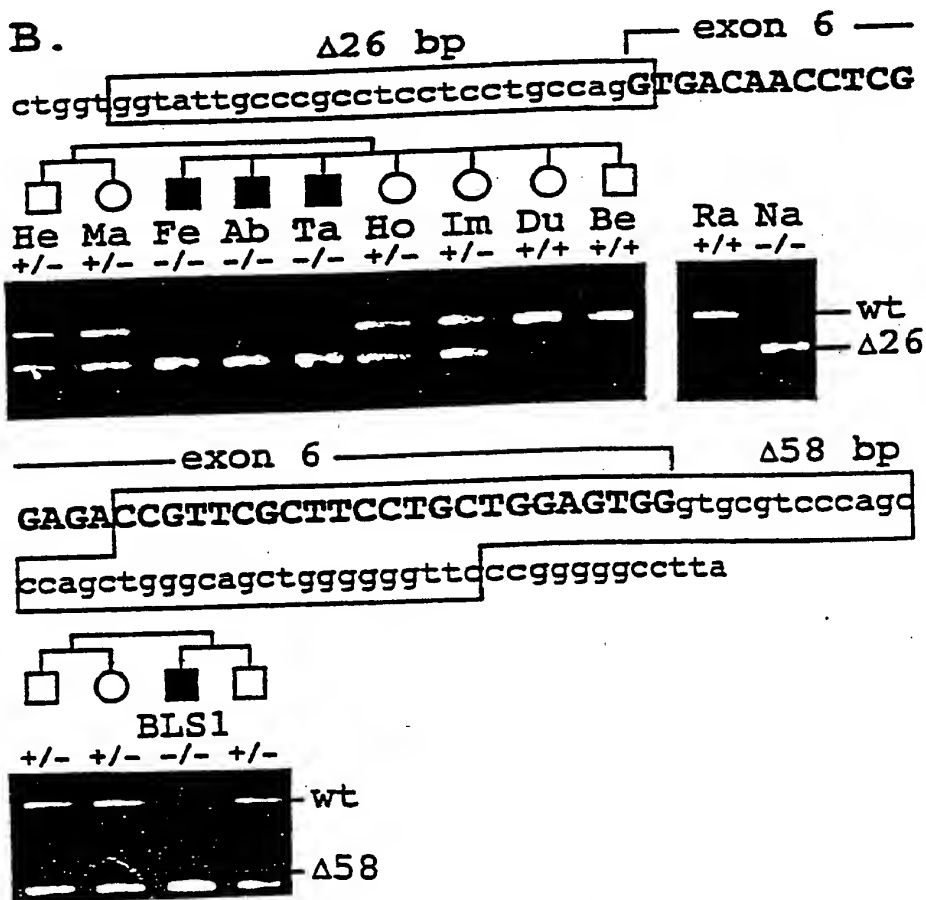
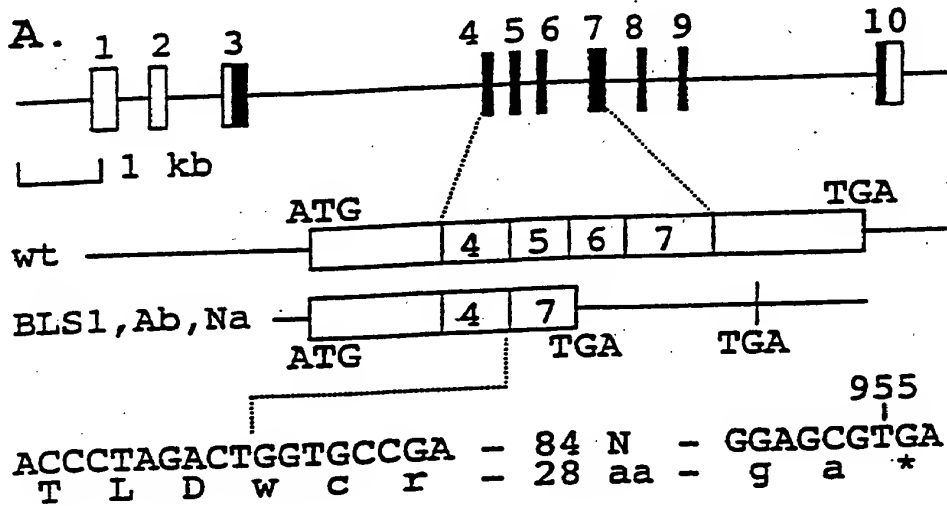


Figure 4

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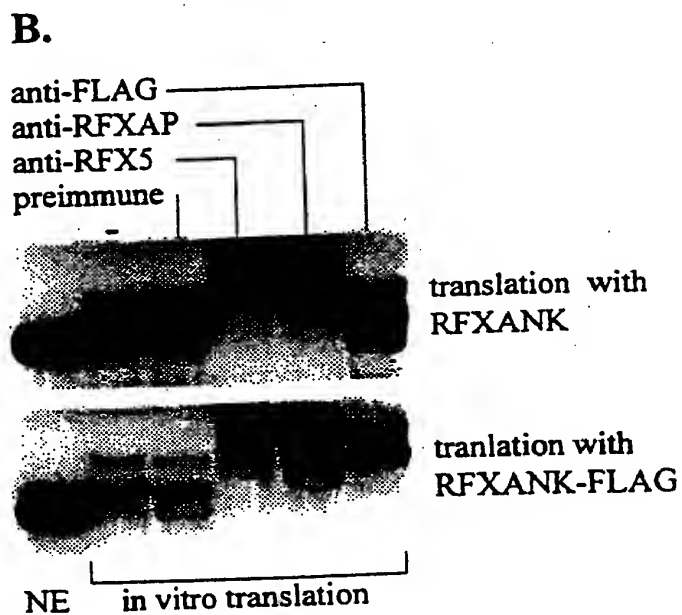
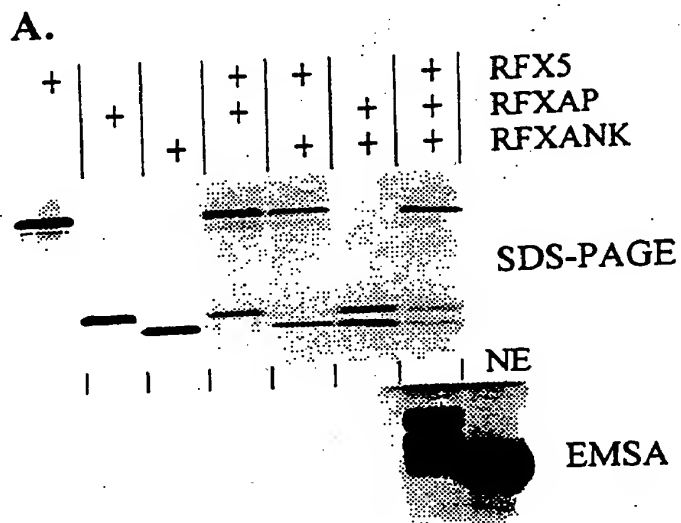


Figure 6

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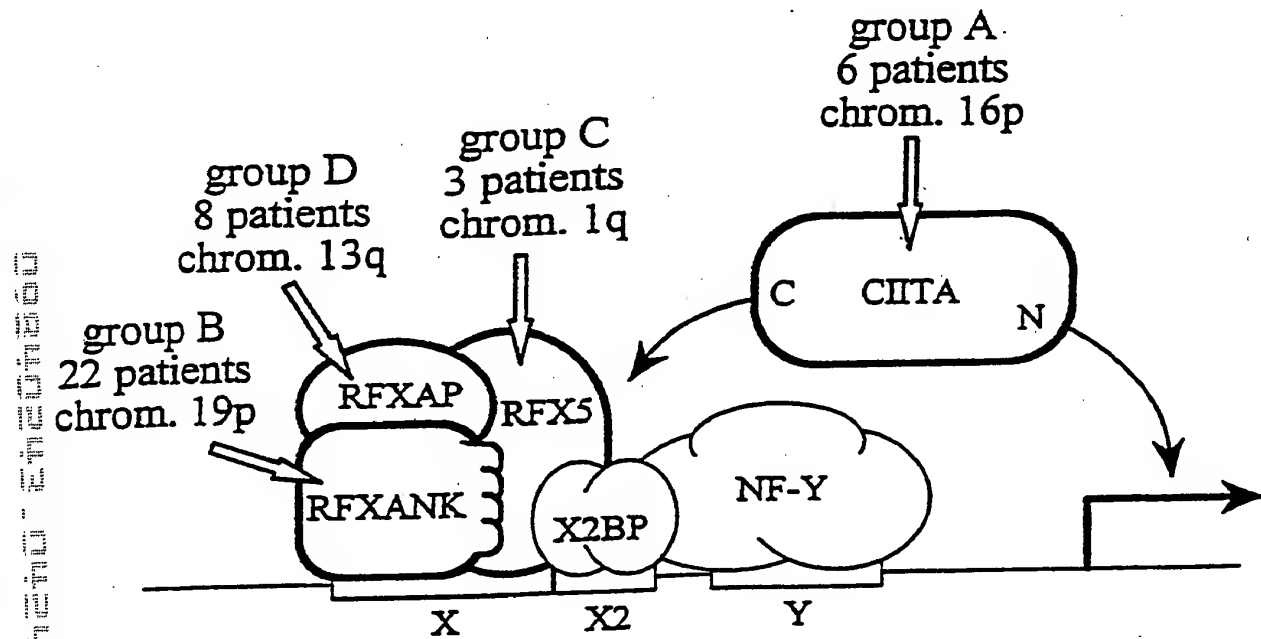


Figure 7

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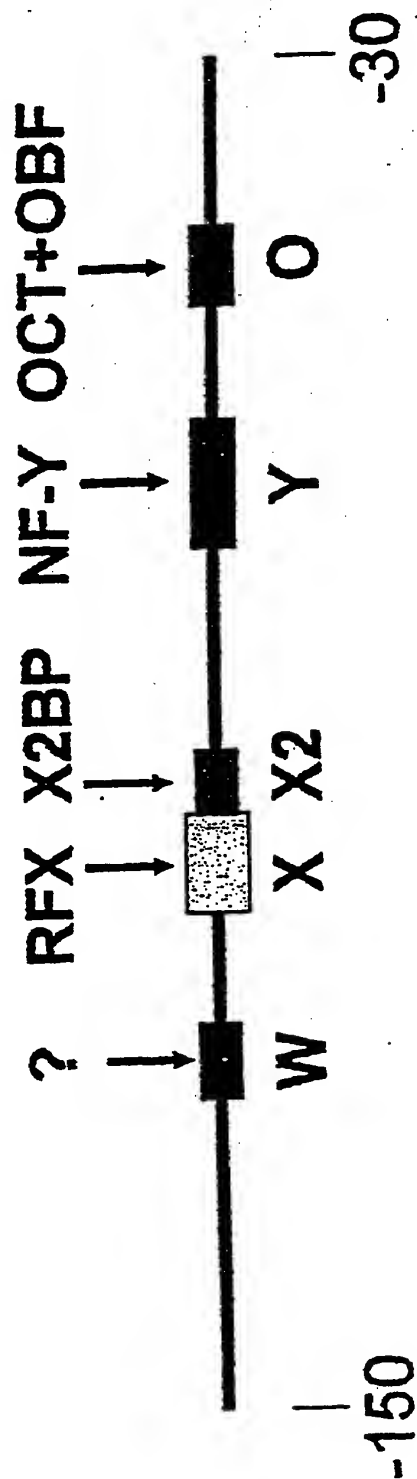


Figure 8

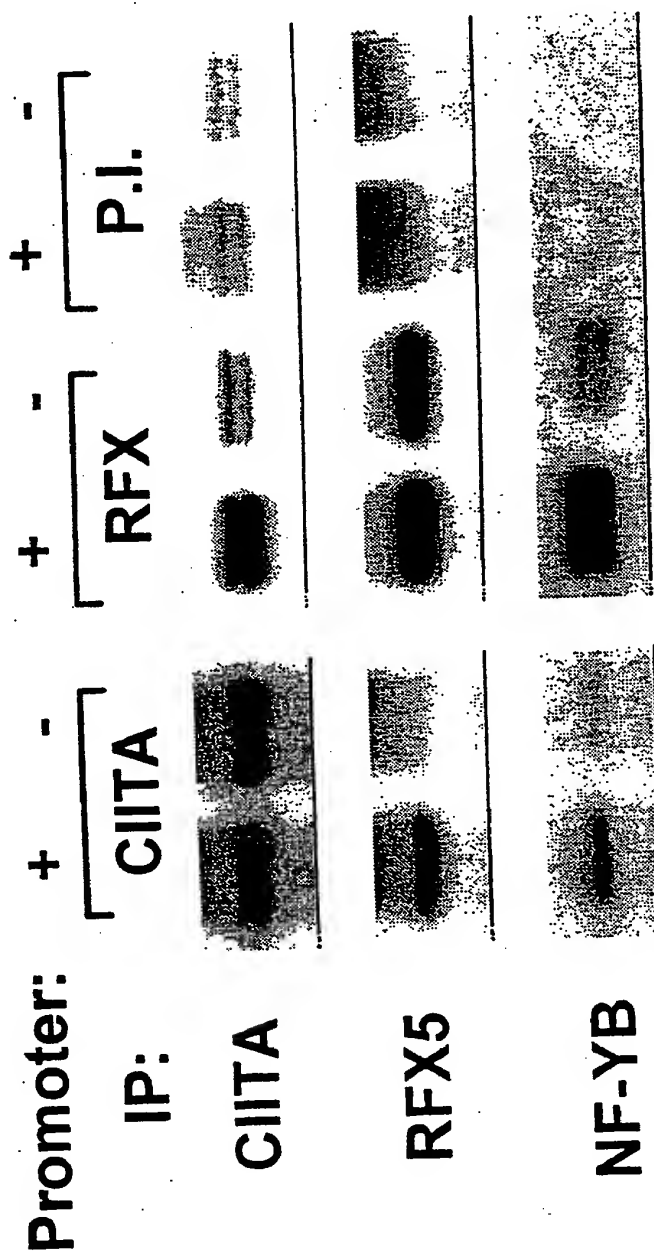


Figure 9

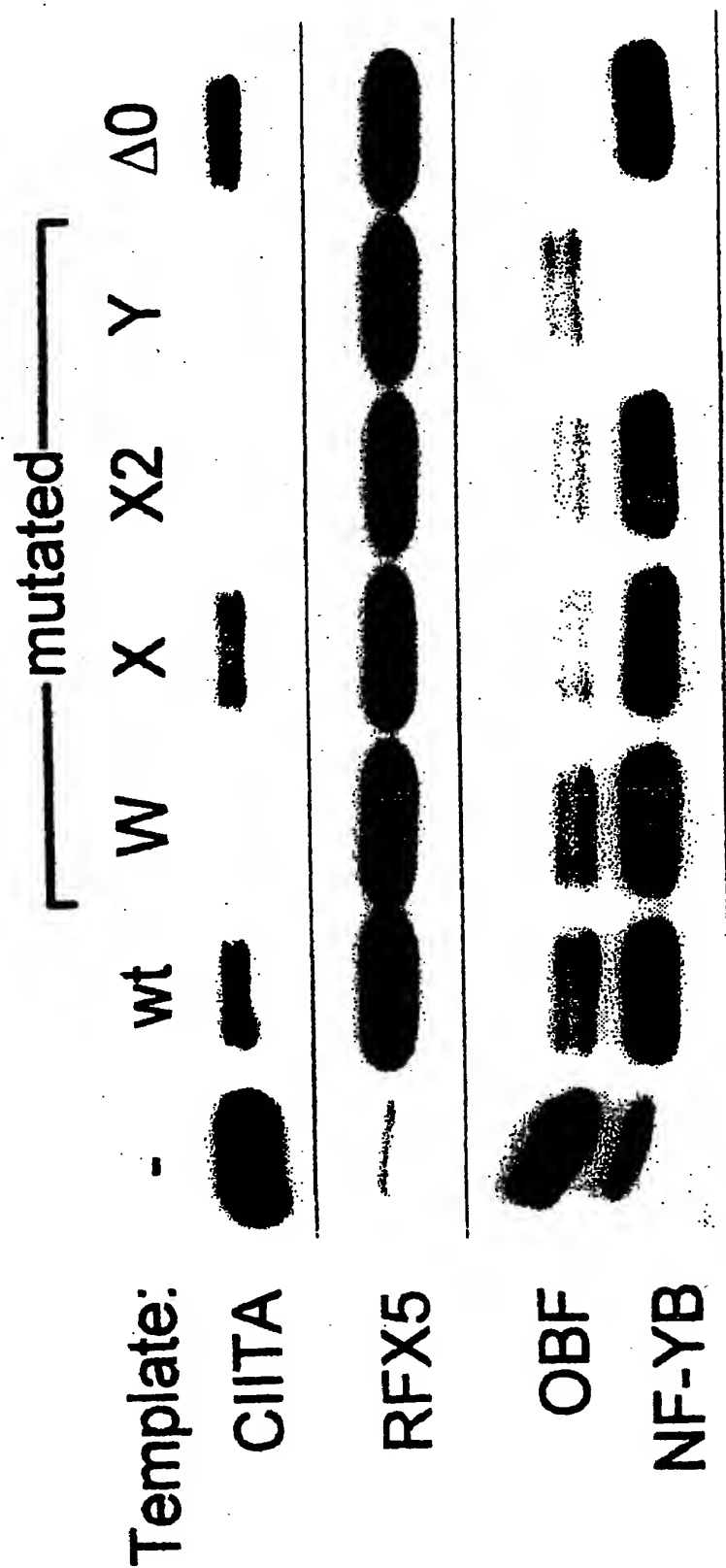


Figure 10a

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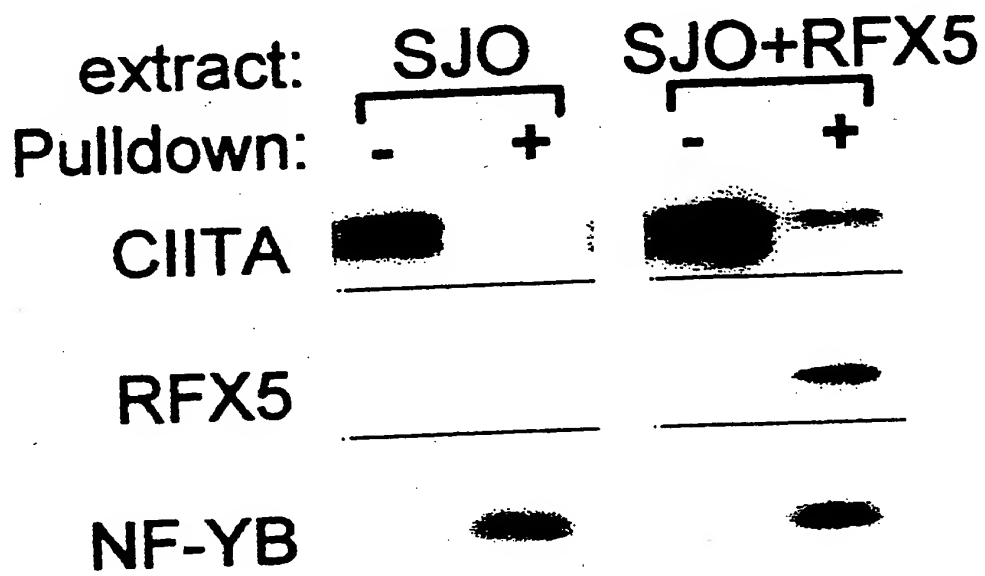


Figure 10b

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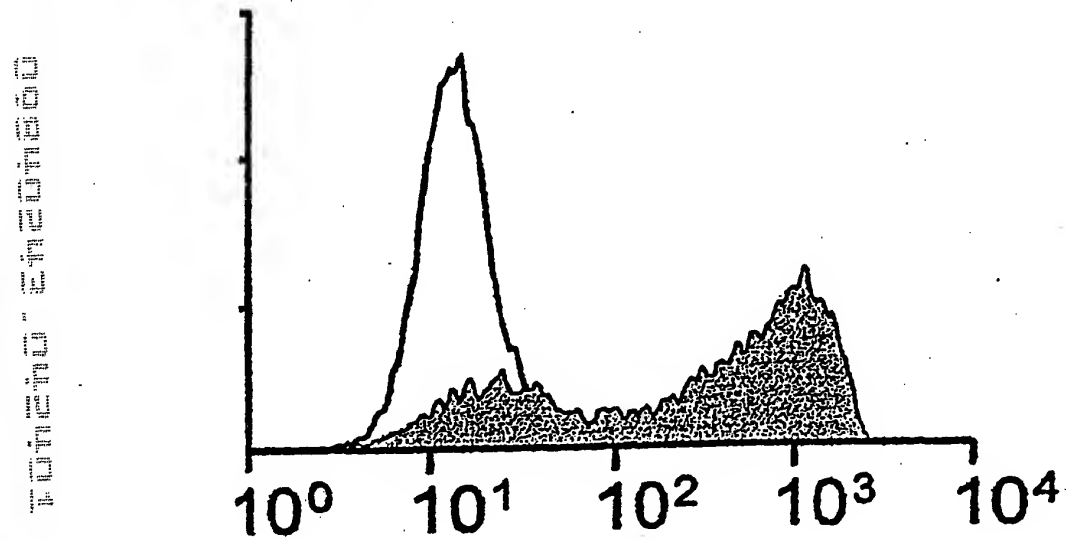


Figure 10c



Figure 11a

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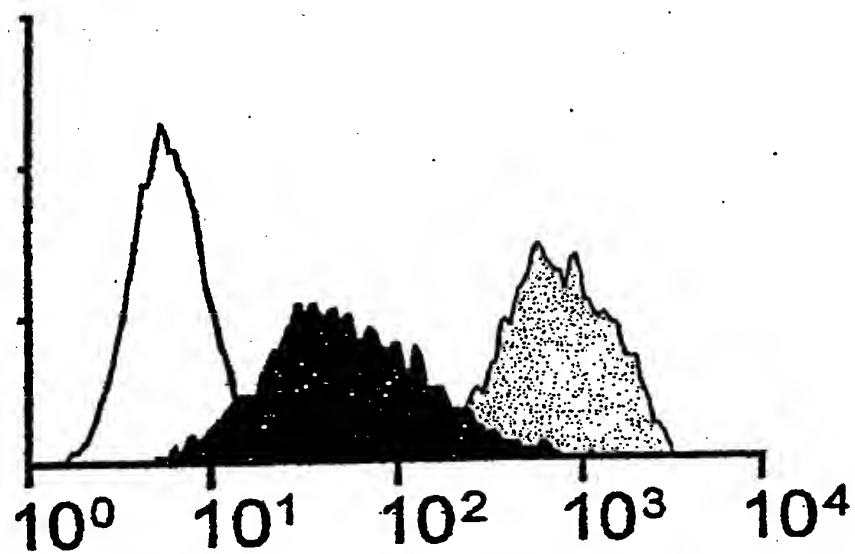


Figure 11b

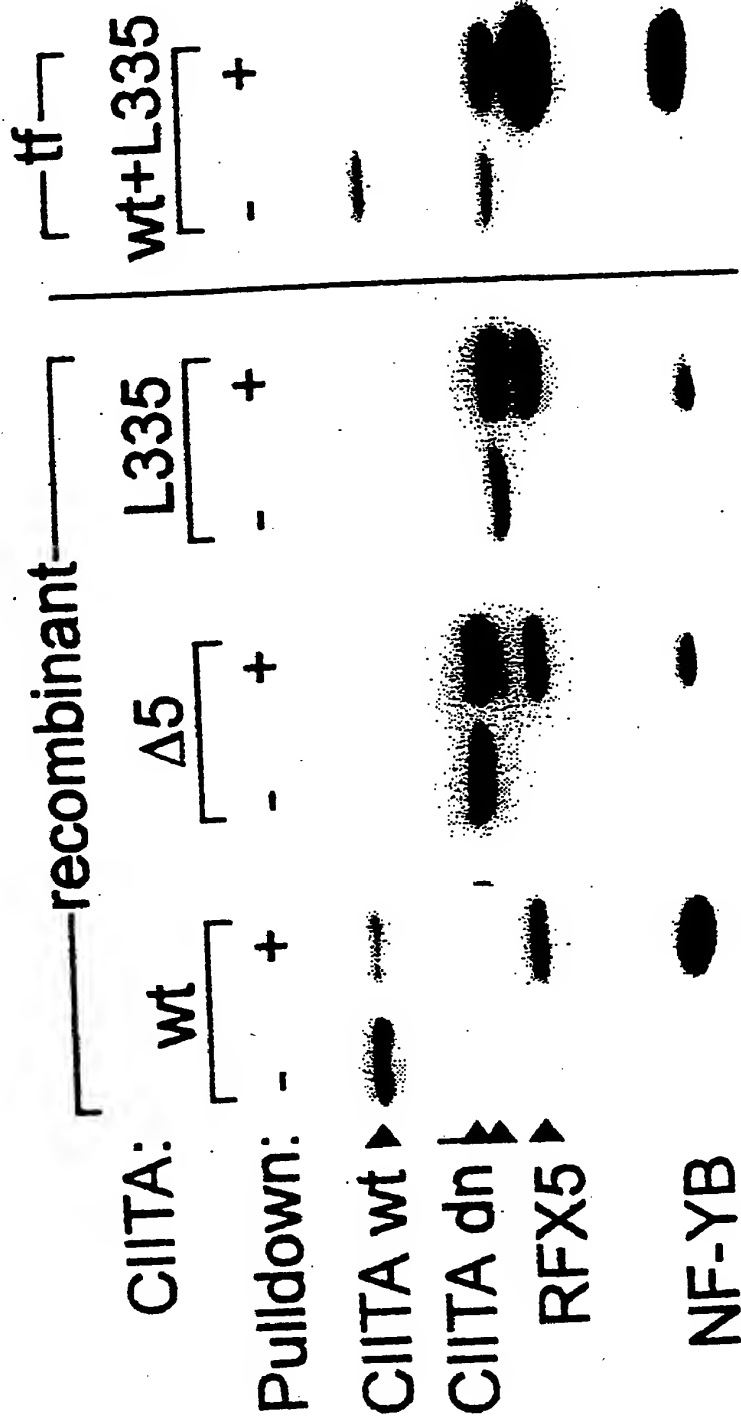


Figure 11c

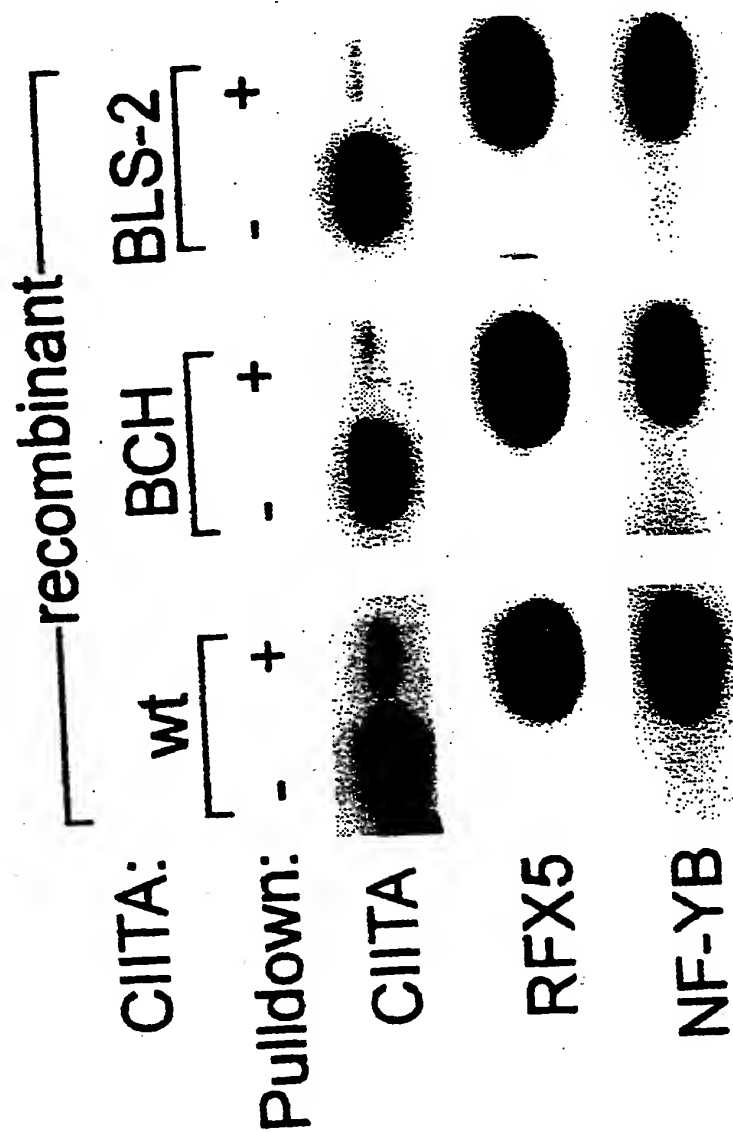


Figure 11d